



Instructions for Catalog # 607
Air Filter Gross Alpha/Beta
Revision 100411

Description:

- This standard is packaged in 47-mm filter holder containing one 47-mm diameter glass fiber filter.
- This standard is not preserved.
- The filter should be stored at room temperature.
- This product is intended to be used as a quality control check of the entire analytical process for the analytes/matrix included in the standard.
- The dilution instructions below represent the minimum suggested sample size for this product. Using a smaller sample size may invalidate the assigned value and/or uncertainty shown on the certificate of analysis.
- The standard contains the following analytes in the activity ranges shown:

Gross Alpha (as Thorium-230) 5 – 100 pCi/filter

Gross Beta (as Cesium-137) 5 – 100 pCi/filter

Helpful Hints:

- This standard is supplied as a spiked filter and the whole filter must be used during preparation and analysis to determine analyte concentrations.
- One side of the glass fiber filter is treated with acrylic lacquer. The spiking solution is applied using a dye such that the spiked side of the filter is easily identified.
- This standard is designed for either direct mount counting or digestion procedures.
- If the standard is digested and flaming is utilized, it should be performed with the lowest heat possible and for the shortest period possible to avoid volatilization losses of Cesium-137.

Instructions:

1. Transfer the entire filter to the preparation vessel or planchet for direct counting.
2. Use your regular preparation and analytical procedures.
3. Decay correct analytical results to the reference date shown on the standard holder.

Safety:

- ERA radiochemistry standards present radiological hazards that vary depending on the particular isotope(s) present. Knowledge of hazards associated with isotopic composition is necessary to prevent laboratory contamination and limit personnel exposure.
- ERA products may be hazardous and are intended for use by professional laboratory personnel trained in the competent handling of such materials. Responsibility for the safe use of these products rests entirely with the buyer and/or user. If you require a Material Safety Data Sheet for any ERA product, please call toll free at 1-800-372-0122.